

**AMENDMENTS TO THE CLAIMS**

**Listing of claims:**

This listing of claims replaces all prior versions and listings of claims in the application.

1. (Currently Amended) A fixing apparatus comprising:

a fixing roller;

heating means for allowing the outer peripheral surface of said fixing roller to have a given temperature capable of performing a fixing operation;

a pressing roller in rotational contact with said fixing roller; and

a biasing member for allowing said pressing roller to be brought into press contact with said fixing roller at a given pressure, wherein

said fixing apparatus is operable to allow a sheet with a surface supporting an unfixed toner thereon to pass through ~~said~~ a rotational contact region along one direction so as to fix said unfixed toner onto said sheet, said fixing apparatus being characterized in that:

said fixing roller is disposed on the side of said sheet surface supporting said unfixed toner;

said pressing roller is disposed on the opposite side of said fixing roller with respect to said sheet; and

said biasing member ~~is adapted to apply~~ applying a biasing force to said pressing roller in a direction intersecting with ~~an axis~~ a plane connecting the respective center ~~positions~~ axes of said fixing roller and said pressing roller.

2. (Original) The fixing apparatus as defined in claim 1, which satisfies the following formula:

$$+ 5^{\circ} < \theta < + 80^{\circ},$$

wherein  $\theta$  is an angle defined between X and Y, said X being an axis connecting the respective centers of said fixing and pressing rollers, said Y being an axis along a direction in which said pressing roller is biased toward said fixing roller in said rotational contact region, and a positive sign assigned to said angle  $\theta$  means that said angle  $\theta$  is defined between said axis X and said axis Y located on a sheet-feeding side with respect to said axis X.

3. (Original) The fixing apparatus as defined in claim 1, which satisfies the following formula:

$$- 5^{\circ} < \theta < - 80^{\circ},$$

wherein  $\theta$  is an angle defined between X and Y, said X being an axis connecting the respective centers of said fixing and pressing rollers, said Y being an axis along a direction in which said pressing roller is biased toward said fixing roller in said rotational contact region, and

a negative sign assigned to said angle  $\theta$  means that said angle  $\theta$  is defined between said axis X and said axis Y located on a sheet-discharging side with respect to said axis X.

4. (Original) The fixing apparatus as defined in claim 1, wherein

said fixing roller has a hard surface portion, and

said pressing roller has an elastic surface portion.

5. (Original) The fixing apparatus as defined in claim 4, which further includes:

releasing means for releasing the sheet attached on the outer peripheral surface of said fixing roller after passing through said rotational contact region, from the outer peripheral surface of said fixing roller.

6. (Original) The fixing apparatus as defined in claim 5, wherein

said releasing means is disposed in contact with the outer peripheral surface of said fixing roller.

7. (Original) The fixing apparatus as defined in claim 5, wherein

said releasing means is disposed opposed to the outer peripheral surface of said fixing roller in a non-contact manner.

8. (Original) The fixing apparatus as defined in claim 4, wherein  
said pressing roller includes a core,  
said elastic surface portion is made of silicone rubber and formed on the outer periphery  
of said core, and  
the thickness of said elastic surface portion is arranged to provide said rotational contact  
region.

9. (Original) The fixing apparatus as defined in claim 4, wherein  
said heating means includes a heater embedded in said fixing roller, and  
said heater is operable to heat the outer peripheral surface of said fixing roller from the  
inside of said fixing roller.

10. (Original) The fixing apparatus as defined in claim 1, wherein  
each of said fixing and pressing rollers has an elastic surface portion.

11. (Original) The fixing apparatus as defined in claim 10, wherein  
respective said elastic surface portions of said fixing and pressing rollers have the same  
elasticity to allow said rotational contact region to be formed as a 2-dimensional configuration.

12. (Original) The fixing apparatus as defined in claim 10, wherein  
said elastic surface portion of said fixing roller has a higher elasticity than that of said  
elastic surface portion of said pressing roller.

13. (Original) The fixing apparatus as defined in claim 10, wherein  
each of said fixing and pressing rollers includes a core,  
each of said elastic surface portions of said fixing and pressing roller is made of silicone  
rubber and formed on the outer periphery of corresponding said core, and  
the total thickness of said elastic surface portions is arranged to provide said rotational  
contact region.

14. (Original) The fixing apparatus as defined in claim 13, wherein  
said heating means includes a heater embedded in said fixing roller, and  
said heater is operable to heat the outer peripheral surface of said fixing roller from the  
inside of said fixing roller.

15. (Original) The fixing apparatus as defined in claim 14, wherein  
said heating means further includes an auxiliary heater embedded in said pressing roller,  
and

said auxiliary heater is operable to heat the sheet which is passing through said rotational contact region, from the sheet surface having no unfixed toner.

16. (Original) The fixing apparatus as defined in claim 1, wherein  
said fixing roller has an elastic surface portion, and said pressing roller has a hard surface portion.

17. (Original) The fixing apparatus as defined in claim 16, wherein  
said fixing roller includes a core,  
said elastic surface portion is made of silicone rubber and formed on the outer periphery of said core, and  
the thickness of said elastic surface portion is arranged to provide said rotational contact region.

18. (Original) The fixing apparatus as defined in claim 16, wherein  
said heating means includes at least one heating roller in rotational contact with the outer peripheral surface of said fixing roller, and  
said heating roller is operable to heat the outer peripheral surface of said fixing roller from the outside of the fixing roller.

19. (Original) The fixing apparatus as defined in claim 18, wherein  
said heating roller includes a metal sleeve, and a heater housed in said sleeve.

20. (Original) The fixing apparatus as defined in claim 18, wherein  
said heating means further includes an auxiliary heater embedded in said pressing roller,  
and  
said auxiliary heater is operable to heat the sheet which is passing through said rotational  
contact region, from the sheet surface having no unfixed toner.

21. (Original) The fixing apparatus as defined in claim 1, wherein  
said fixing roller includes a core, an elastic layer formed on the outer periphery of said  
core, and a thin metal sleeve formed on the outer periphery of said elastic layer.

22. (Original) The fixing apparatus as defined in claim 21, wherein  
said heating means includes an induction-heating device disposed opposed to the outer  
peripheral surface of said fixing roller in a non-contact manner, and  
said induction-heating device is operable to induction-heat said thin metal sleeve.

23. (Original) The fixing apparatus as defined in claim 22, wherein  
said metal sleeve is made of electroformed nickel material.

24. (Original) The fixing apparatus as defined in claim 1, wherein

said fixing roller includes a core, an elastic layer disposed on the outer periphery of said core, and a thin sleeve disposed on the outer periphery of said elastic layer and made of synthetic resin material which dispersedly contains a material for generating heat therein through electromagnetic induction,

said heating means includes an induction-heating device disposed opposed to the outer peripheral surface of said fixing roller in a non-contact manner, and

said induction-heating device is operable to induction-heat said thin sleeve.

25. (Original) The fixing apparatus as defined in claim 24, wherein said synthetic resin material is polyimide resin.